



July 29, 2013

Phillip Brooks
Air Enforcement Division Director
U.S. Environmental Protection Agency
MC 2242A
1200 Pennsylvania Ave.
Washington, D.C. 20460

Object: Lafarge – U.S. EPA Consent Decree Semi-Annual Report for the Joppa, IL facility

Dear Mr. Brooks,

Pursuant to section XII (Reporting Requirements) paragraph 106 of the Consent Decree entered in the matter of the United States v Lafarge North America Inc., et al, please find herewith the semi-annual report covering the period from January 1st to June 30th, 2013 for the Joppa, Illinois facility.

This report contains a table with daily production and mass emission data, as well as intensity rate data (lbs/ton of clinker). Except for the intensity rate, which Lafarge recognizes is necessary to demonstrate compliance with the emissions limits of this Consent Decree, the other daily data in the table would provide information regarding production and kiln capacity which Lafarge considers proprietary and should be treated as confidential business information.

Respectfully submitted,

Jean-Francois Latimier

Compliance Director, EPA projects

cc: per transmittal form attached

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DOCUMENT TRANSMITTAL

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LAFARGE - U.S. EPA CONSENT DECREE

Jul 29, 2013 Date: Affected Plant: Joppa, IL

Issued to:

U.S. EPA

MC 2242A

1200 Pennsylvania Ave. NW Washington, D.C. 20460

Phillip Brooks Attention:

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DOCUMENTS

DOCUMENT NO.

DOCUMENT NAME

DOCUMENT DESCRIPTION

JPA-ALL-GEN-SA-016

JPA Jan-Jun 2013 Semi-Annual Report.pdf

Semi-Annual Report for Joppa - January-June 2013



Pla	ant:
Joppa,	Illinois
Revision:	0

Contains Confidential Business Information

LAFARGE - U.S. EPA Consent Decree Semi-Annual Report

Plant: Joppa Affected state: Illinois

Reporting period: Jan 1st, 2013 to Jun 30th, 2013

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1. Introduction

Pursuant to the terms of the Consent Decree between the Lafarge Companies, the United States and certain Affected States, several of Lafarge's U.S. cement plants are required to implement various control technologies on certain kilns in order to reduce sulfur dioxide (SO₂) and/or nitrogen oxide (NO_x) emissions.

A requirement of the Consent Decree is the submittal of a report after the end of each half calendar year. This document is the semi-annual report covering the period between January 1st, 2013 and June 30th, 2013 for the Joppa, Illinois plant under Section XII Paragraph 106 of the Consent Decree.

The structure of this document follows the requirements specified in the Consent Decree.

2. Information required under Paragraph 106 of the Consent Decree

The italicized text in this document are excerpts from the Consent Decree.

a. Progress of installation of Control Technologies

"Identify any and all dates on which the Lafarge Companies have installed, or describe the progress of installation of, each Control Technology required under Section V (NO $_{\rm X}$ Control Technology, Emission Limits, Tonnage Limits and Monitoring Requirements) and Section VI (SO $_{\rm 2}$ Control Technology, Emission Limits, Tonnage Limits and Monitoring Requirements), and describe any problems encountered or anticipated during such installation, together with implemented or proposed solutions"

Kiln	C.T.	Date of Installation	Progress of Installation	Problems Encountered	Implemented or Proposed Solutions
K1	SCR	Not installed	Main equipment deliveries are completed. Structural and mechanical construction is underway.	None	n/a

b. Progress of installation of CEMS

"Identify any and all dates on which the Lafarge Companies have completed installation of, or describe the progress of installation of, each CEMS required under Section V.B (NO_x Continuous Emission Monitoring Systems) and Section VI.B (SO₂ Continuous Emission Monitoring Systems), and describe any problems encountered or anticipated during such installation, together with implemented or proposed solutions"

	In MS	Date of Installation	Progress of Installation	Problems Encountered	Implemented or Proposed Solutions
K	1	SO ₂ Jan 1998 NO _x Jun 2001	In operation since installation	None	N/A

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c. Temporary Cessation of Kiln Operation

"Identify any and all dates on which the Lafarge Companies Temporarily Ceased Kiln Operation pursuant to Section VII (Temporary Cessation of Kiln Operation)"

During the period covered by this report none of the Joppa, Illinois kilns subject to this Consent Decree have been subject to Temporary Cessation.

d. CEMS data

"Provide all CEMS data collected for each Kiln, including an explanation of any periods of CEMs downtime together with any missing data for which the Lafarge Companies applied missing data substitution procedures, under Section V.B (NO_x Continuous Emission Monitoring Systems) and Section VI.B (SO₂ Continuous Emission Monitoring Systems)"

CEMS data collected for each kiln are in Appendix A of this document.

Note: Kiln 2 was indefinitely mothballed as of March 07, 2012.

e. Compliance with all applicable Demonstration-Phase Facility-Wide 12-Month Rolling Average Emission Limits

"Demonstrate compliance with all applicable Demonstration-Phase Facility-Wide 12-Month Rolling Average Emission Limits in Section V (NO_x Control Technology, Emission Limits, Tonnage Limits and Monitoring Requirements) and Section VI (SO₂ Control Technology, Emission Limits, Tonnage Limits, and Monitoring Requirements) of the Consent Decree"

The demonstration phase as required per the Appendix of the Consent Decree has not yet begun.

f. Compliance with all applicable Facility-Wide 12-Month Rolling Average Emission Limits

"Demonstrate compliance with all applicable Facility-Wide 12-Month Rolling Average Emission Limits in Section V (NO_x Control Technology, Emission Limits, Tonnage Limits and Monitoring Requirements) and Section VI (SO₂ Control Technology, Emission Limits, Tonnage Limits, and Monitoring Requirements) of the Consent Decree"

The Joppa, Illinois plant is not subject to a 12-Month rolling average emission limit per the Consent Decree.

g. Compliance with all applicable 30-Day Rolling Average Emission Limits

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"Demonstrate compliance with all applicable 30-Day Rolling Average Emission Limits of this Consent Decree, including but not limited to those in Sections V (NO_x Control Technology, Emission Limits and Monitoring Requirements) and VI (SO_2 Control Technology, Emission Limits and Monitoring Requirements) of this Consent Decree"

The implementation of the Control Technologies is not yet at a stage where a 30-Day rolling average is applicable.

h. Compliance with all applicable 12-Month Rolling Tonnage Limits

"Demonstrate compliance with all applicable 12-Month Rolling Tonnage Limits under Sections V (NO_x Control Technology, Emission Limits, Tonnage Limits, and Monitoring Requirements) and VI (SO2 Control Technology, Emission Limits, Tonnage Limits, and Monitoring Requirements)"

Based on the CEMS data supplied in Appendix B compliance was achieved throughout the period as demonstrated by the maximum actual Facility-wide 12-month rolling tonnages listed in the table below:-

	N	O _x	S	6O ₂
	Facility-wide 12- month rolling tonnage limit	Maximum actual Facility-wide 12-month rolling tonnage for the reported period	Facility-wide 12- month rolling tonnage limit	Maximum actual Facility-wide 12-month rolling tonnage for the reported period
K1-K2	3,500 tons	1852 tons	1,757 tons	535 tons

Detailed data can be found in Appendix B.

i. Compliance with the Appendix of the Consent Decree

"Provide a complete description and status of all actions the Lafarge Companies have undertaken to comply with the Appendix of this Consent Decree"

Joppa K1 SCR	Submitted/ Started on:	Approved/ Completed on:	Status
Design Report	Oct 27, 2010	Jan 25, 2011	Approved
Baseline Data collection Report	Feb 13, 2013	Mar 30, 2013	No comments received
Optimization Protocol	Feb 14, 2013	Apr 1, 2013	Approved
Optimization Period	Not started	N/A	
Optimization Report	Not submitted	N/A	
Demonstration Period	Not started	N/A	
Final Report	Not submitted	N/A	

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j. Compliance with any applicable 30-Day Rolling Average Emission Limits established under the Appendix of the Consent Decree

"Demonstrate compliance with any applicable 30-Day Rolling Average Emission Limits established under the Appendix of this Consent Decree"

The implementation of the Control Technologies is not yet at a stage where a 30-Day rolling average is applicable.

k. Status of the election made pursuant to Section VIII

"Describe the status of the election made pursuant to Section VIII (Election to Retire and Replace Kilns) of this Consent Decree"

Section VIII of the Consent Decree is not applicable to the Joppa, Illinois plant.

I. Status of actions undertaken pursuant to Section IX

"If applicable, describe the status of actions undertaken pursuant to Section IX Prohibition on Netting Credits or Offsets from Required Controls) of this Consent Decree"

Section IX of the Consent Decree is not applicable to the Joppa, Illinois plant for the period covered by this report.

m. Status of permit applications and any proposed SIP revisions

"Describe the status of permit applications and any proposed SIP revisions required under this Consent Decree"

	Application submitted on:	Approved on:	Status
SCR Construction Permit Application	Jun 19, 2012	Sep 27, 2012	Permit 12060038 issued
Proposed SIP revision	None submitted	n/a	n/a

n. Status of any operation and maintenance work

"Describe the status of any operation and maintenance work relating to activities required under this Consent Decree"

None.

3. Description of non-compliance

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"The semi-annual report shall also include a description of any non-compliance requirements of this Consent Decree and an explanation of the violation's likely cause and of the remedial steps taken, or to be taken, to prevent or minimize such violation"

No non-compliance has been observed during the period covered by this report.

4. Certification

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature:	MMM	Date:	7/25/13
Name (Print): Micha	ael Klenk	Position: F	Plant Manager



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Appendix A: CEMS Data for each Kiln



Plant: Joppa, Illinois

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0

U.S. EPA Consent Decree Semi-Annual Report CEMS Data

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of

Joppa Illinois K1 Data collection period: Submittal date:

od: 01 Jan 2013 - 30 Jun 2013 te: 24 July 2013

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Days in		Kiln (clinker)				SO ₂	Start-up, shut-down, malfunction documentation			Data gap documentation		
porting		production (*)	Mass (*)	Intensity	Mass (*)	Intensity	CEMS					
period	Date	[ton/d]	[lb/d]	[lb/ton KK]	[lb/d]	[lb/ton KK]	incident type	Explanation	Missing data	Explanation		
1	2013 01.01	Non-Res	ponsive	10.60	Non-Responsiv	1.36						
2	2013.01.02	Non-Resi	ponsive	9.84	Non-Responsiv	5.10			1			
3	2013.01.03	MOHITOS	ponsive	8.05	Non-Responsiv	5.67			V			
4	2013 01 04	Non-Res	ponsive	5.50	Non-Responsive	1.91	Malfunction	1 HR - Maintenance - System Cleaning	Multiple data	Part 75 applied		
5	2013.01.05	Non-Resi	nonsive	8.80	Non-Responsiv	3.12						
6	2013 01.06	Man Dan		9.50	Non-Responsive	3.59			-			
7	2013.01.07	Non-Res	ponsive	8.00	Non-Responsiv	3,04			1			
8	2013 01.08	Non-Resi	ponsive	6.85	Non-Responsiv	2.52			1			
9	2013.01.09	Non Pos	poncivo	3.09	Non-Responsive	1.94						
10	2013.01 10	MOHENES	ponsive	3.45	Non-Responsiv	2.55			14 mate 1 a	Part 75 applied		
11	2013 01 11	Non-Res	ponsive	4.78	Non-Responsive	2.01	Malfunction	1 HR - Maintenance - System Cleaning	Multiple data	Part 75 applied		
12	2013.01.12	Non-Resi	nonsive	3.14	Non-Responsive	0.72						
13	2013 01.13	Non Ros	POHISIVO	3.82	Non-Responsiv	0.19 0.03						
14	2013 01.14	Non-Res	ponsive	4.58 5.17	Non-Responsive		14-16	4 HR - Maintenance - Frozen Sample Line	Multiple date	Part 75 applied		
15	2013.01 15	Non-Resi	ponsive		Non-Responsiv	2.42	Maifunction Maifunction	4 HR - Maintenance - Clogged sample line	Multiple data	Part 75 applied		
16 17	2013.01.18	Non Poo	noncivo	6.97 5.25	Non-Responsiv	0.66	remunicaci)	- 142 - Mantrenance - Ologged Sample line	wanpio data			
18	2013 01 17 2013.01 18	Non-Res	POLISIVE	2.85	Non-Responsive		Malfunction	1 HR - Maintenance - System Cleaning	Multiple data	Part 75 applied		
19	2013.01.19	Non-Res	ponsive	3.14	Non-Responsiv	0.14	THE RESIDENCE OF THE PERSON	The maniferiance bystem dealing	ampro unim	. a.r. i a approva		
20	2013.01.19	Non-Res	nonsive	3.88	Non-Responsive	0.10						
21	2013.01.20	Non Des		3.16	Non-Responsiv	0.09						
22	2013.01.21	Non-Res	ponsive	5.58	Non-Responsiv	1.60						
23	2013.01.22	Non-Res	ponsive	6.81	Non-Responsive	0.33						
24	2013 01 24	Non Boo	ponoivo	7.17	Non-Responsiv	0.96						
25	2013 01 25	Non-Res	ponsive	5.44	Non-Responsive Non-Responsive	0.72						
26	2013 01 26	Non-Res	ponsive	3.07	Non-Responsive	0.14			1			
27	2013 01 27	Non-Res	nonsive	N/A	Non-Responsiv	N/A		l control of the cont				
28	2013.01 28	Non-Ixes	porisive	N/A	Non-Responsive	N/A	C.			l.		
29	2013.01.29	Non-Res	ponsive	N/A	Non-Responsiv	N/A				'		
30	2013 01 30	Non-Resi	nonsive	N/A	Non-Responsiv	N/A						
31	2013 01 31	Non Ree	pondive	N/A	Non-Responsive	N/A						
32	2013.02.01	Non-Res	ponsive	N/A	Non-Responsiv	N/A						
33	2013.02 02	Non-Resi	ponsive	/A	Non-Responsive	N/A						
34	2013.02.03	Non-Pas	noneive	N/A	Non-Responsive	N/A						
35	2013 02 04	NONFILES	porisive	/A	Non-Responsiv	N/A						
36	2013.02 05	Non-Res	ponsive	/A	Non-Responsive	N/A						
37	2013 02.06	Non-Resi	nonsive	/A	Non-Responsiv	N/A						
38	2013.02.07	Non Ree	pondivo	/A	Non-Responsiv	N/A	1		10	I		
39	2013.02.08	Non-Res	ponsive	/A	Non-Responsive	N/A			T .			
40	2013.02 09	Non-Res	ponsive	/A	Non-Responsiv	N/A	1					
41	2013.02 10	Non-Res	nonsive	/A	Non-Responsive	N/A						
42	2013 02.11	Non-Ites	POHISIVE	/A	Non-Responsiv	N/A			4			
43	2013.02,12	Non-Res	ponsive	/A	Non-Responsive	N/A			1			
44	2013.02 13	Non-Resi	ponsive	/A	Non-Responsive Non-Responsive	N/A			1			
45	2013.02.14	Mon Pos	noncire	/A	Non-Responsive	V/A			1			
46	2013.02 15	NOH-Kes	POLIZIVE	/A	Non-Responsiv	N/A						
47	2013 02 18	Non-Res	ponsive	/A	Non-Responsive	N/A	4					
48	2013.02.17	Non-Res	noneive	/A	Non-Responsiv	N/A N/A				1		
49 50	2013.02.18	Non-Res	OHOIVE	/A /A	Non-Responsive	N/A N/A	t l					
51	2013.02 19 2013 02 20	Non-Res	ponsive	/A	Non-Responsive	N/A N/A	2					
52	2013 02 20	Non-Res	ponsive	/A	Non-Responsiv	N/A N/A						
53	2013.02.21	Non Boo	noncive	/A	Non-Responsive	N/A N/A	i i		1			
54	2013.02.22	Non-Res	POLISIVE	/A	Non-Responsive	N/A						
55	2013 02 23	Non-Res	ponsive	/A	Non-Responsive	V/A						
56	2013.02.25	Non-Res	nonsive	/A	Non-Responsive Non-Responsive	V/A				L		
57	2013 02 26	Non D		/A	Non-Responsive	V/A						
58	2013 02.27	Non-Res	ponsive	/A	Non-Responsiv	N/A						
59	2013 02 28	Non-Res	ponsive	6.38	Non-Responsive	3.24	1		1			
60	2013 02 28	Non Poo	noncivo	11.28	Non-Responsiv	4.79			1			
61	2013 03 01	Non-Res	POLIZIVE	7.52	Non-Responsive	3,60	1					
62	2013 03.03	Non-Resi	nonsive	6.94	Non-Responsiv	4.41			T.			

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Joppa illinois

Data collection period: Submittal date: 01 Jan 2013 - 30 Jun 2013 24 July 2013

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ays in		Kiln (clinker)	Stack		Stack			-up, shut-down, malfunction documentation		Data gap documentation	
porting		production (*)	Mass (*)	Intensity	Mass (*)	Intensity	CEMS	- I della	Mineine det-	Explanation	
period	Date	[ton/d]	[lb/d]	[lb/ton KK]	[lb/d]	[lb/ton KK]	incident type	Explanation	Missing data	Ефіапасіон	
63	2013 03 04	P Non-Re	sponsive	9.99	Non-Responsiv	3.50				5 · 55 · 10 ·	
64	2013.03.05	Non-Re	sponsive	10.05	Non-Responsiv	4.10	Malfunction	1 HR - Maintenance - Sulfunc Acid Build Up in Sys	Multiple data	Part 75 applied	
65	2013.03 06	Non-Re	enoneive	11.40	Non-Responsiv	3.95				Indian III	
66	2013 03 07	Non-Re		8.34	Non-Responsiv	1.47	Malfunction	1 HR - Maintenance - Analyzer Audit	Multiple data	Part 75 applied	
67	2013 03.08	Non-Re	sponsive	11.95	Non-Responsiv	3.85	Malfunction	2 HR - Maintenance - System Cleaning	Multiple data	Part 75 applied	
68	2013 03.09	Non-Re	sponsive	6.26	Non-Responsiv	1.57					
69	2013.03.10	Non-Re	sponsive	6,68	Non-Responsiv	1.77					
70	2013 03 11	Non Po	cponcivo	8.15	Non-Responsiv	2.69	Malfunction	1 HR - Maintenance - System Cleaning	Multiple data	Part 75 applied	
71	2013 03 12	NOII-Re	shousive	10.38	Non-Responsiv	4,30	Malfunction	1 HR - Maintenance - System Cleaning	Multiple data	Part 75 applied	
72	2013 03 13	Non-Re	sponsive	9.82	Non-Responsiv	4.06					
73	2013 03 14	Non-Re	sponsive	11.33	Non-Responsiv	2.20	1		l	1	
74	2013 03 15	Non-Re	shonsive	7.40	Non-Responsiv	4.00				1	
75	2013.03.15	Non Ro	oponoivo	8.87	Non-Responsiv	4.62					
76	2013.03.10	Non-Re	sponsive	7.81	Non-Responsiv	1.81	1			1	
77	2013.03.17	Non-Re	sponsive	9.94	Non-Responsiv	5.01	Malfunction	1 HR - Maintenance - Recalibration	Multiple data	Part 75 applied	
		Non-Re	sponsive	10.95	Non-Responsiv	6.02	IVIAILUTICLIOTI	THE TRANSPORTER OF TRANSPORTER	Manager Care		
78	2013.03 19	Non-Re	enoneive	0.000	Non-Responsiv	3.32		l.	l	1	
79	2013.03.20	Non Re	aponsive	11.91	Non-Responsiv					1	
80	2013 03.21	Non-Re	shousive	10.24	Non-Responsi	2.49	0.0 - 16 11	R HD Malatassas Banala taskina	Multiple data	Part 75 applied	
81	2013 03 22	Non-Re	sponsive	9.02	Non-Responsiv			8 HR - Maintenance - Repair Analyzer			
82	2013 03 23	Non-Re	sponsive	6.76	Non-Responsiv	5.18	Malfunction	1 HR - Mainteanance - Sample Line Plugged	Multiple data	Part 75 applied	
83	2013 03 24	Non-Po	enoneivo	8.07	Non-Responsiv	3.97					
84	2013.03.25	Non-IXe	sponsive	9.85	Non-Responsiv	4.88			l		
85	2013 03 26	Non-Re	sponsive	11.48	Non-Responsiv	4.06			1		
86	2013.03.27	Non-Re	sponsive	12.67	Non-Responsiv	3.94	Malfunction	2 HR - Maintenance - System Cleaning	Muttiple data	Part 75 applied	
87	2013.03.28	Non-Re	shonsive	8.28	Non-Responsiv	3.20					
88	2013.03 29	Non Ro	oponoivo	7.57	Non-Responsiv	3.50			1		
89	2013.03.30	Non-Re	sponsive	11.88	Non-Responsiv	5.69			1		
90	2013 03 31	Non-Re	sponsive	10.36	Non-Responsiv	5.89					
91	2013 04 01	Non-Re	sponsive	8.45	Non-Responsiv	4,50					
92	2013 04 02	Non-Re	enoneive	7.92	Non-Responsiv	5.15	Malfunction	1 HR - Maintenance - Smaple Line Plugged	Multiple data	Part 75 applied	
93	2013.04.03	Non-Re	sponsive	10.73	Non-Responsiv	3.93	Mananation	The manifestor of approximately approximately			
94	2013.04.04	Non-Re	sponsive	13.10	Non-Responsiv	3.09	Malfunction	2 HR - Maintenance - Sample Line Plugged	Multiple data	Part 75 applied	
95	2013.04.05	Non-Re	sponsive	10.77	Non-Responsiv	3.87		2 HR - Maintenance - System Cleaning	Multiple data	Part 75 applied	
		Non-Re	sponsive	9.88	Non-Responsiv	5.04	IVIASIUTICIIOTI	2 THY TWAINTENBRICE - System Cleaning	Inditiple data	at 15 applied	
96	2013.04.08	Non-Pe	enoneivo		Non-Responsiv						
97	2013 04.07	Non-Re	Sporisive	10.98	Non-Responsiv	6.64			l		
98	2013.04 08	Non-Re	sponsive	10.75	Non-Responsiv	4.25					
99	2013.04 09	Non-Re	sponsive	8.00	Non-Responsiv	4.45					
100	2013 04 10	Non-Re	sponsive	11.99	Non-Responsiv	4,55					
101	2013.04 11	Non Po	cponcivo	11.44	Non-Responsiv	2.53					
102	2013.04.12	Non-Ke	shousive	11.02	Non-Responsiv	1.77	Malfunction	1 HR - Maintenance - System Gleaning	Multipledata	Part 75 applied	
103	2013 04 13	Non-Re	sponsive	13.50	Non-Responsi	3.45					
104	2013.04.14	Non-Re	sponsive	15.45	Non-Responsiv	2.94					
105	2013.04.15	Non-Re	sponsive	13.11	Non-Responsi	2,50					
106	2013.04.16	Non-Po	enoneivo	12.37	Non-Responsiv	2.85		P.			
107	2013 04 17	Mon-Ke	shousive	10.51	Non-Responsiv	2.43					
108	2013.04 18	Non-Re	sponsive	10.71	Non-Responsiv	2.45					
109	2013 04 19	Non-Re	sponsive	8.37	Non-Responsi	2.59	Maltunction	1 HR - Maintenance - System Cleaning	Multiple data	Part 75 applied	
110	2013 04.20	Non-Re	sponsive	12.84	Non-Responsiv	2.31					
111	2013.04.21	Mon De	cpondive	14.81	Non-Responsi	2.33					
112	2013.04.21	Non-Re	shousive	13.19	Non-Responsiv	2.61					
113	2013.04.22	Non-Re	sponsive	14.26	Non-Responsi	3.37					
114	2013 04.24	Non-Re	sponsive	15.79	Non-Responsiv	3.67					
		Non-Po	enoneivo	12.97	Non-Responsi		Malfunction	3 HR - Maintenance - System Cleaning	Multiple data	Part 75 applied	
115	2013.04.25	MOII-KE	Shousive		Non-Responsiv				Multiple data	Part 75 applied	
116	2013.04.26	Non-Re	sponsive	12.30	Non-Responsiv	3.18	Malfunction	2 HR - Unknown Reason	ivididple data	rate to applied	
117	2013 04.27	Non-Re	sponsive	14.67	Non-Responsiv	3.56			1		
118	2013.04 28	Non-Po	enoneivo	17.89	Non-Responsiv	2.99	11				
119	2013 04 29	Non-Re	aponaive	15.46	Non-Responsiv	5.21	l N				
120	2013.04.30	Non-Re	sponsive	15.62	Non-Responsiv	4.65)				
121	2013.05 01	Non-Re	sponsive	13.22	Non-Responsiv	3.33	1				
122	2013.05.02	Non-Ro	sponsive	15.02	Non-Responsiv	4.80					
123	2013.05.03	Non Re	apanaive	17.76	Non-Responsi		Malfunction	5 HR - Maintenance - Trash In System	Multiple data	Part 75 applied	
124	2013.05.04	Non-Re	sponsive	18.18	Non-Responsiv			1 HR - Maintenance - System Cleaning	Multiple data	Part 75 applied	
124	2013 03,04			10.10	HOH-Responsi	4.09	is a municular	The transferiance - System Oreaning	included and	L	

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Date:

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Joppa,	Illinois
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U.S. EPA Consent Decree Semi-Annual Report CEMS Data Contains Confidential

Designers information

Joppa, Illinois K1 Data collection period: Submittal date: 01 Jan 2013 - 30 Jun 2013 24 July 2013

(*) CONFIDENTIAL BUSINESS INFORMATION

Days in		Kiln (clinker)	Stack		Stack			-up, shut-down, malfunction documentation		Data gap documentation
reporting		production (*)	Mass (*)	Intensity	Mass (*)	Intensity	CEMS	F	Mississ data	Explanation
period	Date	[ton/d]	[lb/d]	[lb/ton KK]	[lb/d]	[ib/ton KK] 5,40	incident type	Explanation	Missing data	Ефівнасон
125 126	2013.05.05	Non-Res	sponsive	15,89 11,61	Non-Responsive	2.94	Malfunction	1 HR - Unknown Reason	Multiple data	Part 75 applied
127	2013.05.06	Non-Res	sponsive	13.32	Non-Responsive	4.20	Wandriction	THE SHAIDWITTEGSON		
128	2013.05.07	Non-Res	sponsive	9.75	Non-Responsive Non-Responsive	2.97			1	
129	2013.05.09	Non-Res	sponsive	5.28	Non-Responsive Non-Responsive	0.71				
130	2013.05.10	Non-Res	sponsive	4.60	Non-Responsive	1.04	Malfunction	1 HR - Maintenance - System Cleaning	Multiple data	Part 75 applied
131	2013.05 11	Non-Res	sponsive	12.86	Non-Responsive	3.95				
132	2013.05.12	Non Ros	sponsivo	14.52	Non-Responsive Non-Responsive	4.97			1	
133	2013.05.13	Non-Res	sponsive	14.30	Non-Responsive Non-Responsive	2.43				
134	2013 05 14	Non-Res	sponsive	12.12	Non-Responsive	3.04	Malfunction	4 HR - Maintenance	Multiple data	Part 75 applied
135	2013.05.15	Non-Res	sponsive	13.22	Non-Responsive	2.29	Malfunction	10 HR - Mainteanance	Multiple data	Part 75 applied Part 75 applied
136	2013.05 16	Non-Res	sponsive	13,68	Non-Responsive Non-Responsive	1.01	Malfunction	1 HR - Maintenance - System Cleaning	Multiple data	Part 75 applied
137	2013.05.17	Non-Res	sponsive	12.46	Non-Responsive Non-Responsive	1.00		A LID. Majatanana Contan Chamba	Multiple data	Part 75 applied
138	2013.05.18	Non-Res	sponsive	3.11 0.00	Non-Responsive	0.87 0.00	Matfunction	1 HR - Maintenance - System Cleaning	Ividitiple data	Fait 75 applied
139	2013.05.19	Non Ros	sponsivo	N/A	Non-Responsive	N/A				le l
140	2013 05 20 2013 05 21	Non-Res	sponsive	N/A N/A	Non-Responsive	N/A N/A				
142	2013.05.22	Non-Res	shousive	N/A	Non-Responsive Non-Responsive	N/A				
143	2013.05.23	Non-Res	sponsive	N/A	Non-Responsive	N/A				V.
144	2013.05.24	Non-Res	sponsive	N/A	Non-Responsive	N/A				
145	2013.05.25	Non-Res	sponsive	N/A	Non-Responsive	N/A				
146	2013.05 26	Non-Res	sponsive	N/A	Non-Responsive Non-Responsive	N/A				
147	2013.05 27	Non Pos	sponsivo	N/A	Non-Responsive	N/A				
148	2013 05 28	Non-Res	sponsive	N/A	Non-Responsive	N/A				
149	2013.05.29	Non-Res	sponsive	N/A	Non-Responsive	N/A				
150	2013 05 30	Non-Res	sponsive	N/A	Non-Responsive Non-Responsive	N/A		(1		
151	2013.05 31	Non-Res	sponsive	N/A	Non-Responsive	N/A				
152	2013.06.01	Non-Res	sponsive	N/A	Non-Responsive	N/A				
153	2013.06.02	Non-Res	sponsive	N/A	Non-Responsive	N/A N/A		G	ľ	
154 155	2013.06.03 2013.06.04	Non-Res	enoneive	N/A N/A	Non-Responsive Non-Responsive	N/A			l .	
156	2013.06.05	Non-Res	sponsive	N/A	Non-Responsive Non-Responsive	N/A				
157	2013.06.06	Non-Res	sponsive	52.95	Non-Responsive	5.71			1	
158	2013.06.07	Non-Res	sponsive	13.68	Non-Responsive	3.37				
159	2013.06.08	Non-Res	sponsive	13.64	Non-Responsive	6,58				
160	2013.06.09	Non-Res	sponsive	11.29	Non-Responsive Non-Responsive	4.46				
161	2013 06 10	Non-Res	sponsive	14.34	Non-Responsive	4.84	Malfunction	1 HR - Maintenance - System Cleaning	Multiple data	Part 75 applied
162	2013.06.11	Non-Res	sponsive	10.49	Non-Responsive	3.34				
163	2013 06 12	Non Ros	enoncivo	13.80	Non-Responsive	3.07			La Maria de la	Ded 75 lied
164	2013.06 13	Non-Res	sponsive	12.12	Non-Responsive	4.44	Malfunction	1 hr - Maintenance - Cleaning Filters	Multiple data	Part 75 applied
165	2013 06 14	Non-Res	sponsive	13.99	Non-Responsive Non-Responsive	2.73 5.38				
166 167	2013.06.15 2013.06.18	Non-Res	sponsive	16.11 15.72	Non-Responsive	2.14			1	
168	2013.06.18	Non-Res	sponsive	10.26	Non-Responsive	1.26				1
169	2013.06.17	Non-Res	sponsive	11.25	Non-Responsive	0.83	Malfunction	1 hr - Maintenance - Cleaning Filters	Multiple data	Part 75 applied
170	2013.06.18	Non-Res	sponsive	7.54	Non-Responsive Non-Responsive	1.98		The state of the s		
171	2013.06.20	Non-Res	sponsive	7.00	Non-Responsive	0.79	Malfunction	1 hr - Maintenance - Cleaning Filters	Multiple data	Part 75 applied
172	2013 06 21	Non Ros	enoncivo	7.18	Non-Responsive	1.37	3			
173	2013.06 22	Non-Res	sponsive	7.85	Non-Responsive	1.78				
174	2013.06.23	Non-Res	sponsive	8.23	Non-Responsive Non-Responsive	1.60				
175	2013.06.24	Non-Res	sponsive	9.86	Non-Responsive Non-Responsive	3.27		2 HR - Maintenance - Analyzer Audit	Multiple data	Part 75 applied
176	2013.06.25	Non-Res	sponsive	16.16	Non-Responsive	3.69	Malfunction	3 HR - Maintenance - Analyzer Audit	Multiple data	Part 75 applied
177	2013 06 26	Non-Res	sponsive	5.39	Non-Responsive	0.28				1
178	2013.06.27	Non-Ros	sponsivo	5,66	Non-Responsive	0.57				1
179	2013.06.28	Non Res	aponaive	5.60	Non-Responsive	0.50				1
180	2013 06 29	NOH-Res	sponsive	4.85	Non-Responsive	0.35				1
181	2013.06.30			3.63	Non-Responsive	1.09				

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U.S. EPA Consent Decree Semi-Annual Report CEMS Data

Data collection period:

01 Jan 2013 - 30 Jun 2013 24 July 2013

(*) CONFIDENTIAL BUSINESS INFORMATION

Days in					Stack	SO ₂	Start.	-up, shut-down, malfunction documentation	inction documentation Data gap documentation			
reporting		production (*)	Mass (*)	Intensity	Mass (*)	Intensity	CEMS	State Count, mananation documentation	1	I		
period	Date	[ton/d]	[lp/d]	[lb/ton KK]	[lb/d]		incident type	Explanation	Missing data	Explanation		
1	2013.01.01	Non-Rest	onsive	N/A	Non-Responsive	N/A			All data	Klin 2 down for reporting period		
2	2013.01.02	Non Room	onsive	N/A	Non-Responsive	N/A			All data	Kiln down		
3	2013.01.03	Non-Resp	onsive	N/A	Non-Responsive	N/A	1		All data	Kiln down		
4	2013.01.04	Non-Resp	oonsive	N/A	Non-Responsive	N/A			All data	Kiln down		
5	2013.01.05	Non-Rest	onsive	N/A	Non-Responsive	N/A			All data	Kiln down		
6	2013.01 06	Non-Resp	Jonaive	N/A	Non-Responsive	N/A			All data	Kiln down		
7	2013.01 07	Non-Resp	onsive	N/A	Non-Responsive	N/A			All data	Kiln down		
8	2013 01 08	Non-Resp	onsive	N/A	Non-Responsiv	N/A	1		All data	Kiln down		
9	2013.01.09	Non-Reer	onsive	N/A	Non-Responsive Non-Responsive	N/A			All data	Kiln down		
10	2013.01.10	MOII-IVES	onisive	N/A	Non-Responsiv	N/A	0 1		All data	Kiln down		
11	2013.01.11	Non-Resp	onsive	N/A	Non-Responsiv	N/A			All data	Kiln down		
12	2013 01 12	Non-Resr	onsive	N/A	Non-Responsiv	N/A			All data	Klin down		
13	2013.01 13	Non-Post	onsivo	N/A	Non-Responsiv	N/A			All data	Kiln down		
14	2013.01.14	MOLLIVES	Jonsive	N/A	Non-Responsive	N/A			All data	Kiln down		
15	2013 01 15	Non-Resp	ponsive	N/A	Non-Responsive	N/A			All data	Kiln down		
16	2013 01.16	Non-Resr	onsive	N/A	Non-Responsive	N/A			All data	Kiin down		
17	2013 01.17	Non-Poor	oneivo	N/A	Non-Responsive	N/A			All data	Kiin down		
18	2013 01.17	Non-Kesp	onsive	N/A	Non-Responsive	N/A			All data	Kiln down		
19	2013 01 19	Non-Resp	onsive	N/A	Non-Responsive	N/A			All data	Kiin down		
20	2013 01 20	Non-Resr	onsive	N/A	Non-Responsive	N/A	3		All data	Kiln down		
21	2013 01 21	Non-Poor	oncivo	N/A	Non-Responsive	N/A			All data	Kiin down		
22	2013.01.22	Mon-Kesh	JOHSIVE	N/A	Non-Responsiv	N/A			Ali data	Kiin down		
23	2013.01.22	Non-Resp	ponsive	N/A	Non-Responsive	N/A			All data			
24	2013.01 24	Non-Resr	onsive	N/A		N/A	- 1		All data	Klin down Kiin down		
25	2013.01.25	Non Boor	oncivo	N/A		N/A			All data	Kin down		
26	2013 01.26	MOII-Kest	Jonsive	N/A	Non-Responsive	N/A			All data	Kiln down		
27	2013.01.27	Non-Resp	ponsive	N/A	Non-Responsive	N/A	1		All date			
28	2013.01.28	Non-Resi	onsive	N/A		N/A	- 1			Kiin down		
29	2013.01.29	Non Roor	onoivo	N/A		N/A			Ali data	Kiln down		
30	2013.01.23	Non-Resp	onsive	N/A		N/A	- 1		All date	Kiln down		
31	2013.01.31	Non-Resp	onsive	N/A		N/A	- 1		All data	Kiln down		
32	2013.02.01	Non-Resi	onsive	N/A		N/A	- 1			Kiln down		
33	2013.02.01	Non Roor	onoivo	N/A		N/A	- 1		All data	Kiln down		
34	2013.02 02	Non-Resp	onsive	N/A		N/A			All data	Kiln down		
35	2013.02.04	Non-Resp	oonsive	N/A		N/A	1		All data	Kiln down		
36	2013.02.05	Non-Resi	onsive	N/A		N/A	- 1		All data	Kiin down		
37	2013.02.05	Non Roor	onoivo	N/A	Mon-Poenoneix				All data	Kiln down		
38	2013.02.07	Non-Resp	onsive	N/A N/A		WA	- 1		All data	Kiln down		
39	2013.02.07	Non-Resp	onsive			WA.			All data	Kiln down		
40	2013.02.08	Non-Rest	onsive	N/A N/A		N/A N/A	- 1		All data	Kiln down		
41	2013 02.09	Non Rook	onoive	N/A						Kiln down		
42	2013 02 10	Non-Resp	onsive			WA .				Kiln down		
42	2013.02 11	Non-Resp	onsive	N/A		WA WA			All data	Kiln down		
44	2013.02.12	Non-Reer	onsive	N/A	Min District				All data	Kiin down		
45	2013.02.13	Non Rose	onoive	N/A		WA			All data	Klin down		
45	2013.02.14	Non-Resp	onsive	N/A N/A		WA			All data	Kiln down		
46		Non-Resp	onsive			WA .	- 1		All data	Klin down		
48	2013,02.16	Non-Rest	onsive	N/A		N/A			All data	Kiln down		
48	2013 02.17 2013 02.18	Non Rose	onoive	N/A		V/A			All data	Kiin down		
50		MOII-KES	onsive	N/A N/A		N/A			All data	Kiln down		
51	2013.02.19 2013 02 20	Non-Resp	oonsive	1024	-	V/A	- 1		All data	Kiln down		
52	2013.02.20	Non-Rose	onsive	N/A		V/A				Kiln down		
52		Man Dan		N/A	Mon Boonopolis	V/A			All data	Kiln down		
	2013 02 22	non-kesp	onsive	N/A		VA				Kiln down		
54 55	2013 02 23	Non-Resp	onsive	N/A		VA				Kiin down		
	2013.02 24	Non-Res	onsivo	N/A	NUMERCES DUMSIN	VA				Kiin down		
	2013 02 25	Mari	on sive	N/A		VA				Kiln down		
	2013.02.26	Non-Resp	onsive	N/A	Non-Responsive	VA			All data	Kiin down		
	2013.02.27	Non-Resp	onsive	N/A	Non-Responsive	/A			All data	Kiln down		
	2013 02.28	Non-Res	onsivo	N/A	Non-Responsive	/A				Kiln down		
	2013.03.01	Man D		N/A	Non-Responsive	/A				Kiln down		
	2013.03 02	non-Resp	onsive	N/A	Non-Responsive	/A			All data	Klin down		
	2013.03 03			WA I	Topo Isiv	/A			All data	Kiln down		

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Revision:	0

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Joppa Illinois K2 Data collection period: Submittal date; 01 Jan 2013 - 30 Jun 2013 24 July 2013

(*) CONFIDENTIAL BUSINESS INFORMATION

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Days in		Kiln (clinker)		k NO _x		k SO ₂		up, shut-down, malfunction documentation		Data gap documentation		
orting	5-4-	production (*)	Mass (*)	Intensity	Mass (*)	Intensity	CEMS	Evaluation	Missing data	Explanation		
Priod	Date 2013.03.04	[ton/d]	[lb/d]	Nb/ton KK]	[lb/d] Non-Respons	N/A	incident type	Explanation	All data	Kiln down		
63 64	2013.03.04	Non-Res	ponsive	N/A	Non-Respons	N/A N/A			All data	Klin down		
		Non-Res	ponsive	N/A	Non-Respons	N/A N/A			All data	Klin down		
65	2013.03.06	Non-Res	nonsive		Non-Respons				All data			
66	2013,03.07	Non Doo	porisivo	N/A	Non-Respons	N/A			All data	Kiln down		
67	2013.03.08	Non-Res	ponsive	N/A	Non-Respons	N/A				Kiln down		
68	2013.03.09	Non-Res	ponsive	N/A	Non-Respons	N/A			All data	Klin down		
69	2013 03.10	Non Roo	ponoivo	N/A	Non-Respons	N/A			All data	Klin down		
70	2013.03 11	Non-Res	ponsive	N/A	Non-Respons	N/A			All data	Kiln down		
71	2013.03 12	Non-Res	ponsive	N/A	Non-Respons	N/A			Ali data	Klin down		
72	2013.03.13	Non-Res	nonsive	N/A	Non-Respons	N/A			All data	Kiln down		
73	2013 03 14	NOIT IXCO	ponsive	N/A	Non-Respons	N/A			All data	Kiln down		
74	2013.03.15	Non-Res	ponsive	N/A	Non-Respons	N/A			All data	Kiln down		
75	2013.03.16	Non-Res	nonsive	N/A	Non-Respons	N/A			All data	Kiln down		
76	2013 03 17	Non Roo	ponoivo	N/A	Non-Respons	N/A			All data	Kiln down		
77	2013 03.18	Non-Res	ponsive	N/A	Non-Respons	N/A			All data	Kiln down		
78	2013.03.19	Non-Res	ponsive	N/A	Non-Respons	N/A			All data	Kiln down		
79	20 13.03 20	Non-Ros	nonsive	N/A	Non-Respons	N/A			All data	Kiln down		
80		TAOLITICS.	POHOINE	N/A	Non-Respons	N/A			All data	Kiin down		
	2013 03.21	Non-Res	ponsive		Non-Respons				All data	Kiin down		
81 82	2013.03.22	Non-Res	ponsive	N/A	Non-Respons	N/A N/A			All data	Kiin down		
	2013 03 23	Mon Pos	ponoivo	N/A	Non-Respons							
83	2013.03 24	Non-Res	ponsive	N/A	Non-Respons	N/A			All data	Klin down		
84	2013.03.25	Non-Res	ponsive	N/A	Non-Respons	N/A			All data	Kiln down		
85	2013 03 26	Non-Pos	poneivo	N/A	Non-Respons	N/A			All data	Klin down		
86	2013.03.27	NULLIVES	ponsive	N/A	Non-Respons	N/A			All data	Kiin down		
87	2013 03.28	Non-Res	ponsive	N/A	Non-Respons	N/A			All data	Kiln down		
88	2013 03.29	Non-Res	nonsive	N/A	Non-Respons	N/A			All date	Kiln down		
89	2013.03.30	Non Dee	POHSIVE	N/A	Non-Respons	N/A			All data	Klin down		
90	2013 03.31	Non-Res	ponsive	N/A	Non-Respons	N/A			All data	Kiln down		
91	2013.04.01	Non-Res	ponsive	N/A	Non-Respons	N/A	1		All data	Klin down		
92	2013.04 02	Non Doo	n a naive	N/A	Non-Respons	N/A			All data	Klin down		
93	2013.04 03	Non-Res	ponsive	N/A	Non-Respons	N/A			All data	Kiln down		
94		Non-Res	ponsive	N/A	Non-Respons	N/A			All data			
	2013.04.04	Non-Poc	noneivo		Non-Respons					Klin down		
95	2013.04.05	Non-IXes	ponsive	N/A	Non-Respons	N/A			All data	Kiln down		
96	2013.04 06	Non-Res	ponsive	N/A	Non-Respons	N/A			All data	Kiln down		
97	2013.04 07	Non-Res	nonsive	N/A	Non-Respons	N/A			All data	Kiln down		
98	2013.04.08	Non Dec	ponoivo	N/A	Non-Respons	N/A			All data	Kiln down		
99	2013.04.09	Non-Res	ponsive	N/A	Non-Respons	N/A			All data	Kiin down		
100	2013 04.10	Non-Res	ponsive	N/A	Non-Respons	N/A			All data	Kiin down		
101	2013.04 11	Non Boo	poncivo	N/A	Non-Respons	N/A			Alldeta	Klin down		
102	2013 04.12	MOLLIKES	housive	N/A	Non-Respons	N/A			Ail deta	Klin down		
103	2013.04.13	Non-Res	ponsive	N/A	Non-Respons	N/A			All deta	Klin down		
104	2013.04.14	Non-Res	nonsive	N/A	Non-Respons	N/A			All data	Kiln down		
105	2013 04.15	Non Res	Polioive	N/A	Non-Respons	N/A			All data	Klin down		
106	2013.04.18	Non-R <u>es</u>	ponsive	N/A	Non-Respons	N/A			All data	Kiln down		
107	2013.04.17	Non-Res	ponsive	N/A	Non-Respons	N/A N/A			All data	Kiin down		
		Non Dos	poneire	N/A	Non-Respons	N/A						
108	2013.04.18	Non-Res	bousive		Non-Respons				All data	Kiin down		
109	2013 04 19	Non-Res	ponsive	N/A	Non-Respons	N/A			All data	Kiin down		
110	2013.04 20	Non Pos	noncive	N/A	Non-Respons	N/A			All data	Kiln down		
111	2013.04.21	MOLLINES	housive	N/A	Non-Respons	N/A			All data	Kiln down		
112	2013 04.22	Non-Res	ponsive	N/A	Non-Respons	N/A			All data	Kiln down		
113	2013.04.23	Non-Res	nonsive	N/A	Non-Respons	N/A			All data	Kiln down		
114	2013 04 24	Man D	Poriorve	N/A	Non-Respons	N/A			All d≜ta	Kiln down		
115	2013 04 25	Non-Res	ponsive	N/A	Non-Respons	N/A			All data	Kiln down		
116	2013 04.26	Non-Res	ponsive	N/A	Non-Respons	N/A			All data	Kitn down		
117	2013.04 27	Mon Doo	ponoivo	N/A	Non-Respons	N/A			All data	Kiln down		
118	2013 04 28	Non-Res	bousive	N/A	Non-Respons	N/A			Ali data	Klindown		
119	2013.04.29	Non-Res	ponsive	N/A	Non-Respons	N/A			All data	Klin down		
		Non Pos	noncivo		Non-Respons							
120	2013.04.30	Non-Kes	housive	N/A	Non-Respons	N/A			All data	Kiln down		
121	2013.05.01	Non-Res	ponsive	N/A	Non-Respons	N/A			All data	Kiln down		
122	2013 05.02	Non-Ros	nonsive	N/A	Non-Respons	N/A			All data	Kiin down		
123	2013.05.03	NOTE RES	Polisive	N/A	Non-Respons	N/A			All data	Kiln down		
124	2013.05 04	Non-Res	ponsive	N/A	Non-Respons	N/A			All data	Kiln down		

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July 24, 2013

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Joppa,	Illinois
Revision:	0

U.S. EPA Consent Decree Semi-Annual Report CEMS Data

Submittal date:

Data collection period: 01 Jan 2013 - 30 Jun 2013 24 July 2013

(*) CONFIDENTIAL BUSINESS INFORMATION

Days in Kiln (clinker) Stack NO _x			k NO _x	Stack	SO ₂	Start-u	up, shut-down, malfunction documentation	Data gap documentation			
eporting		production (*)	Mass (*)	Intensity	Mass (*)	Intensity	CEMS				
period	Date	[ton/d]	[lb/d]	[lb/ton KK]	(ib/d1		Incident type	Explanation	Missino data	Explanation	
125	2013 05.05	Non-Res	ponsive	N/A		N/A			All data	Kiln down	
126	2013 05.08	Non-Resi	nonsive	N/A		N/A	1 4		All data	Klin down	
127	2013.05.07	Non Doo	porisivo	N/A	Non-Responsiv	N/A			All data	Klin down	
128	2013 05.08	Non-Res	ponsive	N/A		N/A			All data	Kiln down	
129	2013 05.09	Non-Res	ponsive	N/A	Non-Responsiv	N/A	1 1		All data	Klin down	
130	2013.05.10	Non-Resi	oonsive	N/A	Non-Responsiv	N/A			All data	Klin down	
131	2013 05.11	Non-Pos	onsivo	N/A	Non-Responsiv	N/A	1		All data	Kiln down	
132	2013.05.12	NOII-IXES	housive	N/A		N/A			All data	Kiln down	
133	2013.05,13	Non-Res	ponsive	N/A	Non-Responsiv	N/A			All data	Klin down	
134	2013 05.14	Non-Resi	ponsive	N/A	Non-Responsiv	N/A			All data	Klin down	
135	2013.05.15	Non-Res	nonsive	N/A	Non-Responsiv	N/A			All data	Klin down	
136	2013.05.16	Non Doo	porisivo	N/A	Non-Responsiv	N/A			All data	Kiin down	
137	2013.05.17	Non-Res	ponsive	N/A	Non-Responsiv	N/A			All data	Klin down	
138	2013 05.18	Non-Res	ponsive	N/A	Non-Responsiv	N/A			All data	Kiln down	
139	2013 05.19	Non-Resi	oonsive	N/A	Non-Responsiv	N/A			All data	Klin down	
140	2013.05.20	Non-Pos	noncivo	N/A	Non-Responsi	N/A			All data	Kiin down	
141	2013 05.21	MOII-Kes	POLISIVE	N/A	Non-Responsiv	N/A			All data	Klin down	
142	2013.05.22	Non-Res	ponsive	N/A		N/A			All data	Klin down	
143	2013 05.23	Non-Resi	ponsive	N/A	Non-Responsiv	N/A			All data	Kiln down	
144	2013 05.24	Non-Res	noneive	N/A	Non-Responsiv	N/A	1		All data	Klin down	
145	2013.05.25	Non-Res	porisive	N/A	Non-Responsiv	N/A	1		All data	Klin down	
146	2013 05 28	Non-Res	ponsive	N/A	Non-Responsiv	N/A			All data	Klin down	
147	2013 05.27	Non-Resi	ponsive	N/A	Non-Responsiv	N/A	1		All data	Kiln down	
148	2013 05.28	Non-Resi	nonsive	N/A		N/A	1		All data	Kiin down	
149	2013 05 29	Non Real	concive	N/A	Non-Responsiv	N/A			All data	Klin down	
150	2013,05.30	Non-Res	ponsive	N/A	Non-Responsiv	N/A	- 1		All data	Kiln down	
151	2013 05 31	Non-Res	ponsive	N/A	Non-Responsiv	N/A	- 1		All data	Kiln down	
152	2013.06.01	Non-Resi	oonsive	N/A		N/A			All data	Klin down	
153	2013.08.02	Non-Pos	oonsiyo	N/A		N/A	- 1		All data	Kiin down	
154	2013.08.03	NOII-IXES	housive	N/A	Non-Responsiv	N/A			All data	Klin down	
155	2013.08.04	Non-Res	ponsive	N/A	Non-Responsiv	V/A			All data	Kiln down	
156	2013.08.05	Non-Resi	ponsive	N/A		V/A	1		All data	Klin down	
157	2013 08.06	Non-Res	nonsive	N/A		V/A			All data	Kiln down	
158	2013 08.07	Non Doo	porisivo	N/A		WA	- 1		All data	Klin down	
159	2013.06.08	Non-Res	ponsive	N/A		V/A	- 1		Alldata	Klin down	
160	2013.06.09	Non-Res	ponsive	N/A		V/A	1		Alt data	Kiln down	
161	2013 06 10	Non-Resi	oonsive	N/A		V/A	- 1		All data	Klin down	
	2013.06.11	Non-Rec	ooneivo	N/A		I/A			All data	Kiln down	
	2013 06 12	Non-IXES	ourisive	N/A		I/A			All data	Kiin down	
	2013.06 13	Non-Res	ponsive	N/A		I/A	1		Ali data	Klin down	
	2013 06 14	Non-Resi	ponsive	N/A		I/A			All data	Kiln down	
	2013 06 15	Non-Res	oneivo	N/A		I/A	1		All data	Kiin down	
	2013.06.16	Mon D		N/A		I/A			Alí data	Kiln down	
	2013.06 17	Non-Res	ponsive	N/A		I/A	1		Alldata	Klin down	
	2013.06 18	Non-Resi	ponsive	N/A		I/A			All deta	Kiln down	
	2013.06.19	Non-Resi	oonsive	N/A		/A			All data	Klin down	
	2013.06 20	Non-Pos	oneive	N/A		I/A			All data	Klin down	
	2013.08.21	NUIT-KES	housive	N/A		I/A			All data	Kiin down	
	2013 06.22	Non-Res	ponsive	N/A		I/A	1		All data	Kiln down	
	2013 06 23	Non-Resi	oonsive	N/A		I/A			All data	Kiln down	
	2013 06 24	Non-Rec	ooneivo	N/A		I/A			All data	Klin down	
	2013 06.25	Non-IXES	ourisive	N/A		I/A			All data	Kiln down	
	2013 06.28	Non-Res	ponsive	N/A		I/A					
	2013 06.26	Non-Resi	ponsive			/A			All data	Klin down	
	2013 06.27	Non-Res	oneivo	N/A	None Responsiv				All data	Klin down	
	2013 06.28	Mon D		N/A N/A		I/A I/A			All data	Kiln down	
	2013.06.29	Non-Res	oonsive	N/A N/A		/A			All data All data	Klin down	

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Plant:
Joppa, Illinois
Revision: 0

Appendix B: Facility-wide 12-month rolling tonnage calculations



Plant: Joppa, Illinois 0 Revision:

U.S. EPA Consent Decree 12-Month Rolling Tonnage

Facility-wide (all kilns)

Data collection period: 01 Jan 2013

Submittal date:

2013

30 Jun 2013

24 July

(*) CONFIDENTIAL BUSINESS INFORMATION

		T				-	Stack NO _x I	mass rate(*)						12-mo rolling
- 1		K			< 2		Kiln	l k	Kiln i		Çiln		lant	tonnage
Month	Year	[lb/mo]	[ton/mo]	[lb/mo]	[ton/mo]	[lb/mo]	[ton/mo]	[lb/mo]	[ton/mo]	[lb/mo]	[ton/mo]	[lb/mo]	[ton/mo]	[ton]
February	2012													
March	2012													
April	2012													_
May	2012													=
June	2012													_
July	2012													
August	2012													_
September	2012	I	_									_		_
October	2012													-
November	2012													_
December	2012													
January	2013													1,852
February	2013											\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		1,574
March	2013				_									1,629
April	2013													1,710
May	2013 2013													1,633
June	2013						ж =							1,632
			19				Stack SO ₂ n	mass rate(*)						12-mo rolling
		K	1	H	(2		Kiln	K	iiln	K	iiln	PI	ant	tonnage
Month	Year	[lb/mo]	[ton/mo]	[lb/mo]	[ton/mo]	[lb/mo]	[ton/mo]	[lb/mo]	[ton/mo]	[lb/mo]	[ton/mo]	[lb/mo]	[ton/mo]	[ton]
February	2012													
March	2012													_
April	2012													_
May	2012													_
June	2012													-
luly	2012													

2012 2012 August 2012 September Von-Responsive 2012 October 2012 November 2012 December 2013 January 2013 431 February 2013 482 March 2013 April 535 May 2013 527 June 2013 507

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